CLAIMS

- (Currently Amended) A high-throughput screening method of antagonistic material of integrin, comprising the steps of:
 - a) immobilizing integrin $\alpha_{\rm IID}\beta_3$ and/or $\alpha_\nu\beta_3$ on a protein chip having surface coated with calixarene derivative;
- b) reacting ligand protein labeled with fluorescence and peptide pool of peptide library on the protein chip on which the integrin is immobilized;
- c) washing the protein chip with buffer solution after the reacting; and
- 2. (Previously Presented) The high-throughput screening method of claim 1, wherein the ligand is any one selected from the group consisting of vitronectin, fibronectin, collagen, laminin, Von Willebrand Factor (vWF) and fibrinogen.
- 3. (Previously Presented) HSDVHK peptide (SEQ ID NO:1), HGDVHK peptide (SEQ ID NO: 2), HHLLHK peptide (SEQ ID NO: 3), HGLVHK peptide (SEQ ID NO: 4) or HGDLHK peptide (SEQ ID NO: 5) having antagonistic activity of integrin $\alpha_{\rm H}\beta_3$ and obtained by the screening method of claim 1 or claim 2.
- 4. (Previously Presented) A pharmaceutical composition for treating cancer, comprising peptide of claim 3.

Please add new claims 5, 6 and 7 as follows:

- 5. (New) A high-throughput screening method of antagonistic material of integrin, comprising the steps of:
 - a) immobilizing integrin α_{ττυ}β₃ and/or α_νβ₃;
- b) reacting ligand protein labeled with fluorescence and peptide pool of peptide library on the protein chip on which the integrin is immobilized;
- c) washing the protein chip with buffer solution after the reacting; and
 - d) measuring the degree of ligand binding after the washing;

said method providing a peptide having antagonistic activity of integrin $\alpha_{\rm II}\beta_3$ that is selected from the group consisting of HSDVHK peptide (SEQ ID NO:1), HGDVHK peptide (SEQ ID NO: 2), HHLLHK peptide (SEQ ID NO: 3), HGLVHK peptide (SEQ ID NO: 4) and HGDLHK peptide (SEQ ID NO: 5).

- 6. (New) The high-throughput screening method of claim 5, wherein the ligand is any one selected from the group consisting of vitronectin, fibronectin, collagen, laminin, Von Willebrand Factor (VWF) and fibrinogen
- (New) A pharmaceutical composition for treating cancer, comprising peptide of claim 5.